TO CORRESPONDENTS.

"*Five Years' Sub.*"—Write to Mr. Lockhead, Milton, near Gravesend. The perforation of glass for ventilation is effected as follows:—In forming plates of glass, the glass, when in a semi-fluid state, is poured from the pot on to the casting table—the stream being followed by a pressure roller, for the purpose of flattening it; and while the glass is in a plastic state, a metal mould, with teeth, or projections, on its under side, according to the pattern required, is applied to the surface, forcibly pressed down, and left in that position until the glass has set; after which it is to be removed, and the glass will be found to be perforated, in corresponding shapes to the projections on the mould.

"*Fides.*"—The competition is open to all. A letter to the secretary, "Adelphi, Strand," will obtain full particulars.

"*J. E.*" (Liverpool).—Ditto.

"*Enquirers.*"—Give notice to the district surveyor: it will be his duty to see it remedied.

"*B. H.*" (Chester).—We should like to have further particulars: how and where tried; what time? As respects preserving the service of old red sandstone, see notice of Hutchinson's patent in present number.

"*A Student.*"—Coal ashes make an excellent mortar with lime, but need more labour in the mixing than sand.

"*A Subscriber.*"—We should be happy to receive drawings of such.

"*Chimney.*"—A shaft was carried at Wigan to a height of 420 feet.

"*Received.*"—"W. F.," "W. B." (Brighton); "J. D.," "E. S.," "J. W.," "P. P.," "G. S." (without a description of the trap the statements are valueless); "R. W." (see below); "J. L.," "J. H.," "G. J. R." (shall appear); "W. W.," "K. L.," "W. D.," "S. W." (we shall be happy to look at it); "Constant Reader;" "J. L.," Edinburgh (the statement has already appeared); "History of the New Palace of Westminster," Parts 1 and 2 (Warrington and Son, Strand); "Miscellaneous Mathematical Papers of Oliver Byrne" (Maynard, Leicester-square).

"*Books, Prices, and Addresses.*"—We have not time to point out books or find addresses.

ADVERTISEMENTS.

RIDER'S RAILWAY BRIDGE.—To Railway Companies.—A PROSPECTUS of the above newly-invented IRON TRUSS RAILWAY BRIDGE will be forwarded, and contracts entered into, or licenses granted for its erection, on application to Mr MOULTON, Bradford, Wilts.

MACHINERY SUPERSEDED.—Architects, Builders, and others may have any quantity of Carvings executed at the same rate, and with as much expedition, by manual labour as by machinery, by applying to F. TRIBE, Carver, Windmill-street.
N.B. Designs made and estimates given without delay. Patterns carved for casting in brass, iron, or other metals.

TODD'S PATENT METALLIC PROTOXIDE PAINT, for Stucco Fronts, Brickwork, Iron, Wood, and every description of Painting. This Paint has been most severely tested for nearly four years, by men of great experience, and has been extensively used under the superintendence of Architects, Engineers, and Surveyors of the greatest eminence.—Orders to be addressed to Mr. B. TODD, Patentee, 21, Dean-street Soho, London.

RAIN-WATER PIPES, Heads, Shoes, and Elbows, Half-round and O G Gutters, Sash Weights, Railing Bars, Sink and Stable Traps and Gratings, Air Bricks, Coal Plates, &c.; Gas and Water Pipes from ½ inch to 12 in in diameter, with Bends, Branches, Syphons, and Lamp Columns: also Hot-water Pipes, with all the usual connections. A large Stock of the above Castings at JONES'S Iron Bridge Wharf, No. 6, Bankside, Southwark.

By Her Majesty's Royal Letters Patent.

BAILLIE'S PATENT ROUNDED RIM LOCKS, WITH SECRET AND SECURE FASTEN.

THIS CHEAP and USEFUL ARTICLE obviating the unsightly appearance and insecurity of the common rim lock, can be obtained from the Manufacturers, Messrs. CARPENTER and TILDESLEY, Willenhall; or from the sole Agents, Mr. JOHN FAULKNER, Ironmonger, 62, St. Martin-le-le Grand, London, opposite the new Money-Order Office.

FLEXIBLE INDIA-RUBBER PIPES AND TUBING. For Railway Companies, Brewers, Distillers, Fire Engines, Gas Companies, Gardening and Agricultural purposes, &c.

THE PATENT VULCANIZED INDIA-RUBBER HOSE-PIPES are made to stand hot liquor, and work without injury—do not become hard or stiff in any temperature: it is are always perfectly flexible: and as they require no application of oil or dressing, are particularly well adapted for locomotive engines, railway cranes, fire engines, pumps, gas, beer engines, gardens, and all purposes where a perfectly flexible pipe is required. Made all sizes, from ¼ inch bore upwards, and of any length to order. Vulcanized India rubber garden hose fitted with brass-taps, copper branch and hoses complete, ready to be attached to pumps, water-mains, &c. Sole Manufacturer, JAMES LYNE HANCOCK, Goswell-mews, Goswell-road, London.
N.B. Vulcanized India rubber washers of all sizes for joints of hot water and steam pipes, and vulcanized sheet rubber any thickness for all kinds of joints, and other purposes.

SNOXELL'S PATENT SAFETY REVOLVING WOOD SHUTTERS, Manufactory, 28, REGENT STREET and 131, CHANCERY-LANE. Patent sealed on the 4th day of February, 1845, for Fourteen Years, for Improvements in Hanging Shutters in WOOD and IRON, containing in all Methods of Raising and Lowering Shutters, without Machinery, and Two for Hinging and Sheathing the Edges of Wood Laths with Iron.—The Patentee having fixed up some hundreds, will feel pleased in forwarding the Testimonials of Architects, Principals of large Establishments, and others, having them now in use, which fully guarantees the Patentee in stating they are beyond dispute superior to any other Revolving Shutter for durability, security, and simplicity, without the use of cog-wheel worm and screw gear, or any other complicated machinery employed by other makers.

BUNNETT and CORPE, ENGINEERS, Patentees of REVOLVING IRON AND WOOD SAFETY SHUTTERS, and of ORNAMENTAL METALLIC SASH BARS, MOULDINGS, &c., IN BRASS, COPPER, ZINC, &c. FOR SHOP-FRONTS, SKYLIGHTS, &c.
Shop-fronts completely fitted and fixed in a superior style, either plain or ornamental, sash glazed, with best plate glass. Strong moulded sashbars handsomely carved. Metal works and machinery of all kinds in connection with banking houses, shops, warehouses, &c. &c.
B. and C. challenge competition as to either quality or price.
Designs furnished and estimates given.
IMPROVED PATENT BENCH AND FLOORING CRAMPS FOR BUILDERS.
SOLE LICENCEES FOR MARVIN and MOORE'S PATENT DIAGONAL GRATINGS.
Office of the Patentees, 28, Lombard-street, London; and at the Works, Deptford, Kent.

PERSONS desirous of obtaining LOANS from £50 to £250 upon approved personal or other security, are invited to examine the principles of the BRITISH MUTUAL SUBSCRIPTION LOAN ASSURANCE CLASSES. Prospectuses and every information may be obtained on application at the British Mutual Life Office, 17, New Bridge-street, Blackfriars.
Rules, 6d. each copy.
CHARLES JAMES THICKE, Resident Sec.

ARCHITECTS', ENGINEERS', and BUILDERS' FIRE and LIFE INSURANCE COMPANY, 28, Lombard-street, London.
CHAIRMAN—SYDNEY SMIRKE, Esq., R.A.
TRUSTEES.
Thos. Leverton Donaldson, Esq. | Anthony Salvin, Esq., F.S.A.
Samuel Ostreehill, Esq. | George Smith, Esq., F.S.A.
The rates for both Fire and Life Insurance are so low as can with safety be taken. Those for Life Insurance may be paid either yearly, half-yearly, or quarterly: one-half the annual premium may be left unpaid for seven years, or one-third till the end of life. Thus large sums may be insured at the smallest present outlay.
Prospectuses, forms of proposal &c., may be had at the Office, 28, Lombard-street, or of any of the Agents.
AGENTS WANTED for those towns for which appointments have not yet been made. JOHN REDDISH, Manager.

SCOTTISH PROVIDENT INSTITUTION for MUTUAL LIFE ASSURANCE by MODERATE PREMIUMS. Incorporated by special Act of Parliament. Established in 1837.
Edinburgh: 14, St. Andrew-square.
London: 18, Moorgate-street, Bank.
The Scottish Provident Institution is the only office which combines the advantages of Mutual Assurance with Moderate Premiums. The Premiums are, at early and middle ages, about 20, and in some instances 25 per cent below those of most other Mutual Offices.
This Society being Mutual, is free from the necessity of a nominal, or the burden of a real capital. Thus dividends and similar charges on the funds are avoided.
The peculiar and lasting advantages of this Office may be thus briefly stated:—
PREMIUMS 20 or 25 per cent LOWER than in most other similar Offices, at early and middle ages. Thus the premium of the Equitable, at age 30, for 1,000*l.*, would, at once, in this Office secure 1,287*l.*, which is obviously equivalent to a present and certain bonus of 287*l.*, exclusive of prospective profits.
Premiums may be wholly paid in one sum, or in 7, 14, or 21 annual payments.
The 21 years' scale little exceeds that of most Offices for the whole of life. See table below:
Exemption from entry charges, &c.
The society is bound by its deed of constitution to make liberal provision to members wishing to discontinue their payments.
The whole profits are divided among the assured exclusively, on a principle peculiar to this office, and which is at once equitable, secure, and especially beneficial to good lives, being entire for those members who survive the period at which their premiums, with accumulated interest, amount to the sum assured. It is evident that such larger profits may thus accrue to the parties entitled than by the usual system of other offices, even though their premiums are considerably higher.
More detailed illustrations of the effects of this principle may be obtained at the offices.
Specimen of Premiums for 100*l.* for whole Life and for Twenty-one Years. (These rates include a prospective share in the whole profits of the institution.)

Age	Payable for whole of Life.	Payable for 21 years only.	Age	Payable for whole of Life.	Payable for 21 years only.
	£ s. d.	£ s. d.		£ s. d.	£ s. d.
20	1 10 6	3 10 8	36	2 6 1	3 9 11
24	1 13 6	3 11 3	37	2 7 6	3 9 9
27	1 15 3	3 11 11	38	2 11 3	3 9 4
28	1 16 11	3 12 10	39	2 12 11	3 10
29	1 18 8	3 13 9	40	2 14 9	3 10 4
30	1 19 6	3 14 8	41	2 16 8	3 10 8
31	2 0 4	3 15 5	42	2 18 8	3 11
32	2 1 3	3 16 4	43	2 20 8	3 11 5
33	2 2 2	3 17 3	44	2 23	3 11 10
34	2 3 2	3 18 2	45	2 25 9	3 12 3
35	2 4 10	3 19 0			

All necessary information and forms may be obtained on application at the principal offices in Edinburgh, London, Glasgow, and Manchester, or from any of the provincial agents.
WILMER OWEN HARRIS, Secretary for London.
Office, No. 18, Moorgate-street, September, 1846.

ENCAUSTIC, VENETIAN, BATH, and other PATENT TILES, and MOSAIC PAVEMENTS, may be obtained in great variety at MINTON and Co.'s Warehouses, 9, Albion-place, Surrey side of Blackfriars-bridge; and at their Manufactory, Stoke-upon-Trent, Staffordshire.—N.B. Slabs and Tiles for Fireplaces, plain and ornamental; Door Furniture, &c.

TO BRICK AND TILE MAKERS.

THE AINSLIE BRICK and TILE MACHINE COMPANY (James Smith, Esq., of Deanston, Chairman) invite attention to their improved Brick and Tile Machines, which are to be seen at work at Alperton, and at the Company's office, Bilia, Piccadilly, from Tuesday, to Friday p.m. Mr. Robert Scrivener, who has been appointed manager in the room of Mr. John Ainslie, will show the machines at the works at Alperton, which is within a mile of the Paddock station of the London and North-Western Railway, and two miles of the Ealing station of the Great Western Railway; also at the Polytechnic Institution, Regent-street, London.—All communications to be addressed to Mr. WILLIAM HOSKINS, Secretary, at the office of the Company, London, 1854, Piccadilly.—March 1, 1847. These machines may also be seen at Mr. Simms's, London-walk, Edinburgh; Mr. Robert Boyle's, Ayr; Mr. Lawrence Hill's, 138, Buchanan-street, Glasgow; Mr. Robert Chartier, Mill-hill, Leeds; Messrs. Penny and Fourth's Pendridge, Staffordshire; Messrs. Drummond and Son's, Dublin; and Mr. John Connor, Newton Limavady, County Derry.

	In London	At Tunstall
Blue and Red Squares.	6" and 7" at 8s. 10½d. per yard, and 1s. 3½d.	
Ditto ditto	7½" and 11" at 8s. 10½d. per yard, and 1s. 7½d.	
Ditto ditto	9" and 11" at 9s. 1½d. per yard, and 1s. 9½d.	

ILLUSTRATED TRADE LISTS GRATIS, containing much information useful for reference, also Testimonials respecting a MATERIAL which, when well wrought, is decidedly superior to every other for drains or conduits for glass, or artificial glasses, corridors, for ridges, tops, valleys, and every part of roofs, for plain or chequered pavings, for open-fire areas walls and other strong works, &c. To be had GENUINE of THOMAS PEAKE (proprietor of "Peake's Terra-Metallic"), No. 4 Wharf, City-road Basin, London; also at the Theries, Tunstall, Staffordshire. Articles would be supplied to any extent, and dispatched to any part of the world. The lists contain prices by measure as well as by number. Letters to be prepaid, and to say if the London or Staffordshire prices are wanted.

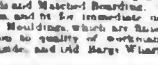
REDUCED PRICES.

WILLIAM CLEAVE, of Wilton-road, Pimlico Basin, begs to acquaint Builders and the Trade that he has now on hand, at his Manufactory (the first of its kind ever established), a very large Assortment of Dry and Well seasoned FLOORING BOARDS and MATCH BOARDING of all sorts, from ½ inch to 1½ inch thick, planed to a parallel width and thickness, and at greatly Reduced Prices. Also, Timber, Deals, Oak Planks, Scantlings, Sash Bars, Moulding prepared by Machinery, Lambs, &c.
Apply at W. CLEAVE'S Planing Manufactory and Timber Yard, Wilton-road, Pimlico Basin, late C. MOORE and SON.

A REDUCTION in the PRICE of FLOOR BOARDS.—ALFRED HOWLING begs to inform the Trade and Consumers generally that he has REDUCED the PRICE, and keeps constantly in stock a large and very general assortment of Prepared Floor Boards and Matched Boardings, laid to a parallel breadth and thickness, and fit for immediate use; also a variety of machine-prepared Mouldings, which are finished with great accuracy and attention to quality of workmanship.—South-work Bridge Wharf, Southwark, and Old Barge Wharf, Upper Ground-street, Blackfriars.

T. ADAMS (late S. DARE), MAHOGANY and TIMBER MERCHANT, Sawmaker, New Road, near the Bricklayers Arms, SEASONED FLOORING, MATCH-BOARDING FIT FOR IMMEDIATE USE, and MOULDINGS prepared by machinery, Cut Deals and Scantling of every dimension. Mahogany, Cedar, Mangrovel, Wainscot, Elm, Beech, Oak, &c., in planks, boards, veneers, and logs. Planks, Oak, and Fir Laths; Wheelwrights' Goods. All sawn and prepared goods delivered free of expense except timber. Sawing charged at mill prices. Very extensive Drying Sheds.

MAHOGANY.—Twenty Thousand Pounds' worth of dry HONDURAS and SPANISH MAHOGANY and WAINSCOT always on hand suitable for Builders, Pianoforte Manufacturers, Cabinet and Merchantmakers, Railway Contractors, and all persons requiring well-seasoned materials at moderate prices, at T. C. WILSON'S Timber Yard, 13, Great-street, Soho.—T. C. WILSON adopts this mode of informing the public where they can procure dry and superior articles, in consequence of the numerous complaints of parties having bought wood elsewhere as seasoned, where upon working the same it has proved otherwise.

MUIRS PATENT  PLANING MACHINE.

SAW MILLS, GILLINGHAM-STREET, PIMLICO.

TIMBER of any size, PLANK, DEALS, and BATTENS, &c., sawn on the most improved principle. Boards, &c., prepared, Matched and Grooved, by Muir's Patent Machinery. The Mills have all the advantages of navigation and water-carriage, being connected with the Thames by the Grosvenor Canal. Goods finished from the docks and carted home free of charge.
Address to HENRY SOTHAM, Saw Mills, Gillingham-street, Pimlico.
N.B. Estimates given for Sawing and Planing.

WOOD THOROUGHLY SEASONED in DAYS instead of YEARS, by DAVISON and SYMINGTON'S PATENTED PROCESS, at the Patent Desiccating Company's Establishment for Seasoning, Sawing, and Planing Wood, at the Grand Surrey Mills, immediately adjoining the Commercial and East Country Docks, Rotherhithe. The new process conserves the entire removal of moisture, hardens the gums, prevents further shrinkage, and strengthens the fibre.—For scale of prices, or further particulars, apply at the Patent, or for further information, address, post paid, or apply to W. H. TANQUERAY, Secretary.
The Patent Desiccating Company's Offices are REMOVED from 28, New Broad-street to No. 61, QUEEN-STREET, CITY.

TIMBER-PRESERVING COMPANY.—PATENT PATENTS for the PRESERVATION of TIMBER AGAINST DRY ROT, FIRE, RAVAGES of WORMS, &c.—The above Company are ready to enter into arrangements for the Preparation of Timber at any of their undermentioned stations, viz.:—

Whitehall Wharf, Westminster,	Leith.
Fort-wood-on Wye,	Harwich.
Wisbech,	Southampton.
Gateshead,	Portsmouth.
Barnstaple,	Dartmouth.
Leicester.	

and they will erect the necessary apparatus wherever there is a considerable quantity of timber to be prepared.—Further particulars, with prices, may be obtained at the London Works, Whitehall Wharf, Cannon-row, Westminster.

THE TIMBER-PRESERVING COMPANY.—At the First General Meeting of the Company, held at the Company's Offices, Whitehall Wharf, Cannon-row, Westminster, on Friday, September 4, 1846: GEORGE BURGE, Esq., in the chair. The Secretary having read the advertisement convening the meeting, the following resolutions were unanimously adopted:—
1. That the common seal of the Company be affixed to the register of shareholders.
2. That the following gentlemen be the Directors of the Company, viz.:—

George Burge, Esq.	Charles Payne, Esq.
Henry Hitchins, Esq.	Charles Rawlings-smith, Esq.
Frederick Hutchins, Esq.	John Neville Warren, Esq.
Edward Lesher, Esq.	William Warren, Esq.

That the annual sum of 400*l.* be paid to the Directors for their services, to Friday the 1st May, 1846, and that such sum be apportioned among them in such manner as they may think fit.
3. That Mr. William Bridges and Mr. William Bruce Greenfield be appointed auditors to the Company, and that they be paid the usual fees for their services each for their trouble.
4. That the directors be authorised to appoint a secretary, and to pay him such salary as they may think fit, not exceeding 200*l.* per annum.
5. That the directors be authorised to order the common seal of the Company to be affixed to the deeds and instruments necessary for vesting in the Company the letters patent, warehouses, workshops, yards, premises, machinery, plant, materials, stock, property, and effects, purchased on behalf of the Company from Messrs. Payne and Lesher, and for securing to Messrs. Payne and Lesher the purchase-money or other consideration for the same.
GEORGE BURGE, Chairman.
That the thanks of the meeting be given to the chairman for his able conduct in the chair.
R. C. DUKE, Secretary.

TO GAS COMPANIES, Gas Fitters, and Gas Consumers.—W. DEPKIES, 10, Hampstead-road, 67, St. Martin's-lane, and 118, Argyle-street, Glasgow, having proved by eight years' experience his DRY METER to be unrivalled, begs to say, that nearly 3,000 are now in use, defying injurious Gas, and are never affected by Heat, Damp, or Frost. They may be obtained on Hire of all the Gas Companies who supply Meters to their Customers.—Testimonials of great value may be obtained at either Factory.

WHITE'S PATENT HYDRO-CARBON GAS.—The advantages of this Gas are as follows:—It does not require any purification: the cost is much less than the ordinary coal gas, and the apparatus necessary for its production not half the price: it is perfectly free from sulphuric acid, sulphurous acid gas, ammonia, &c. &c., and gives a most brilliant light, not injuring the health of the inmates, nor destroying the goods in the house where it is made and consumed. It may be seen in full operation at the Royal Polytechnic Institution, Regent-street, where its properties are explained daily by the Professor Ryan. Parties requiring this cheap and beautiful Gas for lighting towns, factories, or dwelling houses, may procure any information from the Patentee, Mr. STEPHEN WHITE, or from Mr. GEORGE FOWLER, at the Patent Hydro Carbon Gas Offices, No. 4, Lincoln's-Inn Fields.

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